

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:
dynamically establishing ATM adaptation layer 2 (AAL2) channel identifiers (CIDs) on a call-by-call basis using ATM standards-based call control signaling protocols ~~of an AAL2 signaling layer;~~
~~multiplexing voice information from one channel of a customer premise equipment (CPE) into a plurality of AAL2 packets at a network edge device having a common CID of the AAL2 CIDs; and~~
~~executing a call set up process in the AAL2 signaling layer, comprising mapping the common CID to a virtual path/virtual channel (VP/VC) that forms part of a virtual user network interface (UNI) to an ATM network and mapping the CIDs to a virtual path/virtual channel (VP/VC) that forms part of a virtual user network interface (UNI) to an ATM network.~~
2. Canceled.
3. (Currently Amended) An apparatus comprising an ATM node configured to:
dynamically establish ATM adaptation layer 2 (AAL2) channel identifiers (CIDs) on a call-by-call basis using ATM standards-based call control signaling protocols ~~of an AAL2 signaling layer;~~
~~multiplex voice information from one channel of a customer premise equipment (CPE) into a plurality of AAL2 packets at a network edge device having a common CID of the AAL2 CIDs; and~~
~~execute a call set up process in the AAL2 signaling layer, comprising mapping the common CID to a virtual path/virtual channel (VP/VC) that forms part of a virtual user network interface (UNI) to an ATM network and map each of the CIDs to a virtual path/virtual channel (VP/VC) within an ATM standard call control protocol.~~
4. Canceled.

5. (Currently Amended) A method, comprising:
~~multiplexing voice information at a network edge device from one channel of a customer premise equipment (CPE) into a plurality of ATM adaptation layer 2 (AAL2) packets having a common channel identifier (CID); and~~
~~executing a call set up process in an AAL2 signaling layer, comprising mapping the common CID to a virtual path/virtual channel (VP/VC) as part of a standards based ATM call control protocol of the AAL2 signaling layer, wherein the VP/VC forms part of a virtual user network interface (UNI) to an ATM network~~ mapping ATM adaptation layer 2 (AAL2) channel identifiers (CIDs) to a virtual path/virtual channel (VP/VC) within a standards-based ATM call control protocol.
6. (Original) The method of claim 5 wherein the standards-based ATM call control protocol is selected from the list comprising UNI 3.1/4.0 and Q.2931.
7. (Currently Amended) The method of claim 5 wherein the mapping is performed at ~~the~~a network edge device communicatively coupled to ~~the~~ customer premises equipment.
8. (Original) The method of claim 7 wherein the network edge device is communicatively coupled to the customer premises equipment over time division multiplexed communication channels.
9. (Currently Amended) The method of claim 8 further comprising multiplexing the time division multiplexed communication channels to multiple one or more AAL2 VPs/VCs.
10. (Currently Amended) The method of claim 9 further comprising mapping the multiple one or more AAL2 VPs/VCs to the CIDs prior to mapping the CIDs to the VP/VC.
11. (Currently Amended) Computer-readable instructions, which when implemented by a processor, cause the processor to:
~~multiplex voice information at a network edge device from one channel of a customer premise equipment (CPE) into a plurality of ATM adaptation layer 2 (AAL2) packets having a common channel identifier (CID); and~~

~~execute a call set-up process in an AAL2 signaling layer, comprising mapping the common CID to a virtual path/virtual channel (VP/VC) as part of a standards-based ATM call control protocol of the AAL2 signaling layer, wherein the VP/VC forms part of a virtual user network interface (UNI) to an ATM network map ATM adaptation layer 2 (AAL2) channel identifiers (CIDs) to a virtual path/virtual channel (VP/VC) within a standards-based ATM call control protocol.~~

12. (Previously Presented) The computer-readable instructions of claim 11, wherein the computer-readable instructions are embodied in a computer readable medium.

13. (Currently Amended) The computer-readable instructions of claim 11 further comprising additional instructions, which when implemented by the processor, cause the processor to multiplex at least one or more time division multiplexed communication channels to multiple one or more AAL2 VPs/VCs prior to mapping the AAL2 CIDs to the VP/VC.

14. (Currently Amended) The computer-readable instructions of claim 13 further comprising yet more instructions, which when executed by the processor, cause the processor to map the multiple one or more AAL2 VPs/VCs to the CIDs prior to mapping the CIDs to the VP/VC.